

19. Explain the complete life cycle and its pathogenesis of Plasmodium.
20. Compare and contrast the morphology, life cycle, clinical manifestations, of *Taenia solium* and *Taenia saginata*.
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APRIL/MAY 2025

**FMB61/CMB61 — MEDICAL VIROLOGY
AND PARASITOLOGY**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define a virus and mention its important properties.
2. What is the importance of serological diagnosis in viral infections?
3. Name two diseases caused by Picornaviruses.
4. How are SARS and MERS transmitted?
5. What are the two types of Herpes Simplex Virus (HSV)?
6. Define antiviral drugs.
7. How is Leishmaniasis transmitted?
8. Name two types of parasites with examples.



9. Name the two main types of hookworms that infect humans.

10. How is Schistosomiasis transmitted to humans?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the classification of viruses based on their genetic material and structure.

Or

(b) Illustrate the different methods of virus cultivation.

12. (a) Demonstrate the life cycle and pathogenesis of the Dengue virus.

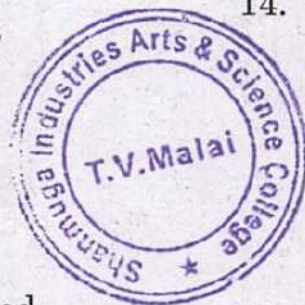
Or

(b) Evaluate the epidemiology, symptoms and prevention of mumps.

13. (a) Construct the structure of the Pox virus.

Or

(b) Explain the differences between live attenuated and inactivated viral vaccines with examples.



14. (a) Explain the laboratory methods for diagnosing malaria.

Or

(b) Outline the life cycle of *Entamoeba histolytica*.

15. (a) Discuss the morphology of *Ascaris lumbricoides*.

Or

(b) Explain about Filariasis.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in detail about the serological diagnostic techniques for viral infections, including their advantages and limitations.

17. Explain the different types of Hepatitis viruses (A, B, and C) in terms of structure, transmission, pathogenesis, and prevention.

18. Discuss the pathogenesis, treatment, and prevention of HIV infections